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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 10

Complete If Known

Application Number	10/092,128
Filing Date	03/06/2002
First Named Inventor	BARBEE et al.
Group Art Unit	1711
Examiner Name	RAJGURU
Attorney Docket Number	USC3CIPCON2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A01	6,447,860		Mueller et al.	09-10-2002	
	A02	6,417,262		Turner et al.	07-09-2002	
	A03	6,407,155		Quian et al.	06-18-2002	
	A04	6,403,231		Mueller et al.	06-11-2002	
	A05	6,391,449		Lan et al.	05-21-2002	
	A06	6,384,121		Barbee et al.	05-07-2002	
	A07	6,376,591		Lan et al.	04-23-2002	
	A08	6,350,805		Korbee et al.	02-26-2002	
	A09	6,254,803		Matthews et al.	07-03-2001	
	A10	6,232,388		Lan, et al.	05-15-2001	
	A11	6,156,835		Anderson et al.	12-05-2000	
	A12	6,162,857		Trexler et al.	12-19-2000	
	A13	6,120,860		Bowen et al.	09-19-2000	
	A14	6,117,541		Frisk	09-12-2000	
	A15	6,084,019		Mataybas	07-04-2000	
	A16	6,071,988		Barbee et al.	06-06-2000	
	A17	6,057,396		Lan et al.	05-02-2000	
	A18	6,060,549		Li et al.	05-09-2000	
	A19	6,050,509		Clarey et al.	04-18-2000	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A21	EP	0940430			09-08-1999		
	A22	WO	99/38914			08-05-1999		
	A23	WO	99/15432			04-01-1999		
	A24	WO	98/53000			11-26-1998		
	A25	WO	98/29499			07/09/1998		
	A26	JP	10168305			06-23-1998		
	A27	EP	0846723			06-10-1998		
	A28	JP	10133013			05-22-1998		
	A29	JP	10077427			03-24-1998		
	A30	EP	0822163		Serrano et al.	02-04-1998		
Examiner Signature		U.K. RAJGURU				Date Considered	SEP 25, 2003	

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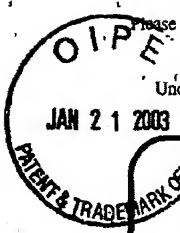
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Substitute for form 1449A/PTO			Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/092,128
			Filing Date	03/06/2002
			First Named Inventor	BARBEE et al.
			Group Art Unit	1711
			Examiner Name	RAJGURU
Sheet 2 of 10			Attorney Docket Number	USC3CIPCON2

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
	B1	6,034,163		Barbee et al.	03-07-2000	
	B2	6,017,632		Pinnavaia et al.	01-25-2000	
	B3	5,993,769		Pinnavaia et al.	11-30-1999	
	B4	5,972,448		Frisk et al.	10-26-1999	
	B5	5,952,093		Nichols et al.	09-14-1999	
	B6	5,942,320		Miyake et al.	08-24-1999	
	B7	5,916,685		Frisk et al.	06-29-1999	
	B8	5,882,751		Occhiello et al.	03-16-1999	
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	B10	5,849,830		Tipursky et al.	12-15-1998	
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		Office ³	Number ⁴	Kind Code ² (if known)				
B21 B22 B23 B24 B25 B26 B27 B28 B29 B30	B21	WO	98/01346			01-15-1998		
	B22	JP	10001608			01-06-1998		
	B23	WO	97/02323			01-23-1997		
	B24	WO	97/44384			11-27-1997		
	B25	WO	97/31973			09-04-1997		
	B26	WO	97/31057			08-28-1997		
	B27	WO	97/30950			08-28-1997		
	B28	JP	9217012			08-19-1997		
	B29	JP	9176461			07-08-1997		
	B30	EP	780340			06-25-1997		

Examiner Signature	<i>V.K. RAJGURU</i>	Date Considered	<i>SEP 25, 2003</i>
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		Group Art Unit	1711
(use as many sheets as necessary)		Examiner Name	RAJGURU
Sheet	3 of 10	Attorney Docket Number	USC3CIPCON2

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		Number	Kind Code ² (if known)			
	C01	5,578,672		Beall et al.	11-26-1996	
	C02	5,552,469		Beall et al.	09-03-1996	
	C03	5,530,052		Takekoshi et al.	06-25-1996	
	C04	5,523,045		Kudert et al.	06-04-1996	
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	C08	5,429,999		Nae et al.	07-04-1995	
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	C11	5,382,650		Kasowski et al.	01-17-1995	
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	C13	5,371,051		Pope et al.	12-06-1994	
	C14	5,340,884		Mills et al.	08-23-1994	
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	C18	5,273,706		Laughner	12-28-1993	
	C19	5,248,720		Deguchi et al.	09-28-1993	
	C20	5,221,507		Beck et al.	06-22-1993	

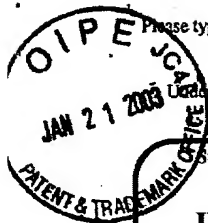
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S 								

Examiner Signature	U.K. RAJGURU	Date Considered	SEP 25, 2003
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				Application Number	10/092,128
(use as many sheets as necessary)				Filing Date	03/06/2002
				First Named Inventor	BARBEE et al.
Sheet 4 of 10				Group Art Unit	1711
				Examiner Name	RAIGURU
				Attorney Docket Number	USC3CIPCON2

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
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	D03	5,153,061		Cavagna et al.	10-06-1992	
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	D07	5,102,948		Deguchi et al.	04-07-1992	
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	D09	5,037,285		Kudert et al.	08-06-1991	
	D10	5,034,252		Nilsson et al.	07-23-1991	
	D11	5,028,462		Matlack et al.	07-02-1991	
	D12	5,011,534		Berube	04-30-91	
	D13	4,994,313		Shimizu et al.	02-19-1991	
	D14	4,983,719		Fox et al.	01-08-1991	
	D15	4,983,432		Bissot	01-08-1991	
	D16	4,957,980		Kobayashi et al.	09-18-1990	
	D17	4,946,365		Kudert et al.	08-07-1990	
	D18	4,894,411		Okada et al.	01-16-1990	
	D19	4,889,885		Usuki et al.	12-26-1989	
	D20	4,810,734		Kawasumi et al.	03-07-1989	

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Examiner Initials	Cite No. ¹	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)		
	D21	EP	650994		05-03-1995	
	D22	WO	95/06090		03-02-1995	
	D23	JP	7026123		01-27-1995	
	D24	WO	94/29378		12-22-1994	
	D25	WO	94/11430		05-26-1994	
	D26	EP	0590263		04-06-1994	
	D27	WO	93/14922		08-05-1993	
	D28	WO	93/11190		06-10-1993	
	D29	EP	542266		05-19-1993	
	D30	WO	93/04125		03-04-1993	


Examiner Signature	U.K. RAIGURU	Date Considered	SEP 25, 2003
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		Application Number	10/092,128
		Filing Date	03/06/2002
		First Named Inventor	BARBEE et al.
		Group Art Unit	1711
Sheet 5 of 10		Examiner Name	RAJGURU
		Attorney Docket Number	USC3CIPCON2

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	E01	4,777,206		Rittler	10-11-1988	
	E02	4,769,078		Tso	09-06-1988	
	E03	4,742,098		Finlayson et al.	05-03-1988	
	E04	4,739,007		Okada et al.	04-19-1988	
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	E06	4,720,420		Crass et al.	01-19-1988	
	E07	4,680,208		Aoki et al.	07-14-1987	
	E08	4,677,158		Tso et al.	06-30-1987	
	E09	4,676,929		Rittler	06-30-1987	
	E10	4,646,925		Nohara	03-03-1987	
	E11	4,600,409		Campbell	07-15-1986	
	E12	4,595,715		Kuze et al.	06-17-1986	
	E13	4,546,126		Breitenfellner et al.	10-08-1985	
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	E15	4,517,112		Mardis et al.	05-14-1985	
	E16	4,482,695		Barbee et al.	11-13-1984	
	E17	4,472,538		Kamigaito et al.	09-18-1984	
	E18	4,450,095		Finlayson	05-22-1984	
	E19	4,442,163		Kuhner et al.	04-10-1984	
	E20	4,434,076		Mardis et al.	02-28-1984	

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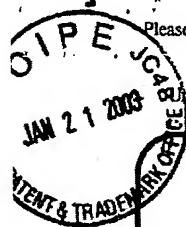
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	E22	EP	459472			12-04-1991	
	E23	EP	398551			11-22-1990	
	E24	EP	295336			12-21-1988	
	E25	DE	3808623			10-06-1988	
	E26	DE	3806548			09-15-1988	
	E27	EP	278403			08-17-1988	
	E28	EP	261430			03-30-1988	
	E29	JP	62073943			04-04-1987	
	E30	EP	0202532			11-26-1986	

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F01 F02 F03 F04 F05 F06 F07 F08 F09 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20	F01	4,429,079		Shibata et al.	01-31-1984	
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	F10	4,071,503		Thomas et al.	01-31-1978	
	F11	4,064,112		Rothe et al.	12-20-1977	
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	F13	3,946,089		Furukawa et al.	03-23-1976	
	F14	3,876,552		Moynihan	04-08-1975	
	F15	3,843,479		Matsunami et al.	10-22-1974	
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	F19	3,700,398		Cole, Jr.	10-24-1972	
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	F22	WO	84/03096			08-16-1984		
	F23	GB	2123014			01-25-1984		
	F24	JP	76029697			03-09-1976		
	F25	JP	75010196			04-18-1975		
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	F28	JP	75001156			01-16-1975		
	F29	GB	1090036			11-08-1967		
	F30	WO	99/41299			08-19-1999		

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				Application Number	10/092,128
				Filing Date	03/06/2002
				First Named Inventor	BARBEE et al.
				Group Art Unit	1711
Sheet 7 of 10				Examiner Name	RAJGURU
				Attorney Docket Number	USC3CIPCON2

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	G01	3,627,625		Jarrett	12-14-1971	
	G02	3,544,523		Maxion	12-01-1970	
	G03	3,514,498		Okazaki et al.	05-26-1970	
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	G20	4,208,218		Finlayson	06-17-1980	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	G21	WO	0034393			06-15-2000		
	G22	WO	0034378			06-15-2000		
	G23	EP	090787			04-21-1999		
	G24	EP	0822163			02-04-1998		
	G25	EP	0899301			03-03-1999		
	G26	WO	93/04118			03-04-1993		

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Attorney Docket Number	USC3CIPCON2

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Attorney Docket Number	USC3CIPCON2

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ²
	11	LEBARON et al., "Polymer-Layered Silicate Nanocomposites: an Overview," <i>App. Clay Sci.</i> , 15, 11-29 (1999)	
	12	KE et al., "Crystallization, Properties, and Crystal Nanoscale Morphology of PET-Clay Nanocomposites," <i>J. Appl. Polym. Sci.</i> , 71, 1139-1146 (1999)	
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	18	FUKUSHIMA et al., "Swelling Behavior of Montmorillonite by Poly-6- Amide," <i>Clay Minerals</i> , 23, 27-34 (1988)	
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	J1	FAHN ET AL., "Reaction Products or Organic Dye Molecules with Acid-Treated Montmorillonite," <i>Clay Minerals</i> , 18, 447-458 (1983)	
	J2	GREENLAND, "Adsorption of Polyvinyl Alcohols by Montmorillonite," <i>J. Colloid Sci.</i> , 18, 647-664 (1963)	
	J3	T. J. PINNAVAIA and TIE LAN, "Clay-Reinforced Epoxy Nanocomposites," <i>Chem. Mater.</i> , 6, 2216 (1994) ^r	
	J4	Y. KUROKAWA, H. YASUDA, A. OYA, "Preparation of a Nanocomposite of Polypropylene and Smectite," <i>Mater. Sci. Letters</i> , 15, 1481 (1996)	
	J5	M. KAWASUMI, N. HASEGAWA, M. KATO, A. USUKI, and A. OKADA, "Preparation and Mechanical Properties of Polypropylene-Clay Hybrids," <i>Macromolecules</i> , 30, 6333 (1997)	
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	J7	C.O. SRIAKHI et al. <i>J. Mater. Chem.</i> , 6, 103 (1996).	

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